

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listings of Claims:

Claims 1-10 (canceled)

11. (currently amended): A modulator for combining a plurality of received signals and outputting a desired output signal, the modulator comprising:

(a) a summing amplifier having a first input for receiving a video signal, a second input for receiving a first audio signal, a third input for receiving a second audio signal, and an output for outputting a modulated summed signal;

(b) a first frequency synthesizer for generating a first frequency for mixing with the modulated summed signal to generate a high intermediate frequency (HI-IF) signal; ~~and~~

(c) a second frequency synthesizer for generating a second frequency for mixing with the HI-IF signal to generate the desired output signal;

(d) an audio mixer for receiving a baseband audio input signal and outputting the first audio signal to the second input of the summing amplifier;

(e) a third frequency synthesizer electrically coupled to the audio mixer for generating a third frequency for mixing with the baseband audio input signal to generate the first audio signal;

(f) a common communication bus, electrically coupled to the first, second and third synthesizers, for programming the first, second and third frequencies; and

(g) a switch, electrically coupled to the common communication bus, for selectively providing the second audio signal to the third input of the summing amplifier.

Claims 12 and 13 (canceled)

14. (currently amended): The modulator of claim 11 further comprising:

(h) ~~(d)~~ an up-conversion mixer having an input electrically coupled to the output of the summing amplifier for receiving the modulated summed signal and outputting the HI-IF signal.

15. (previously presented): The modulator of claim 14 wherein the up-conversion mixer is electrically coupled to the first frequency synthesizer for receiving the first frequency for mixing with the modulated summed signal to generate the HI-IF signal

16. (currently amended): The modulator of claim 11 further comprising:

(h) ~~(d)~~ a down-conversion mixer for receiving the HI-IF signal and outputting the desired output signal.

17. (previously presented): The modulator of claim 16 wherein the down-conversion mixer is electrically coupled to the second frequency synthesizer for receiving the second frequency for mixing with the HI-IF signal to generate the desired output signal.

Claims 18 and 19 (canceled)

20. (previously presented): The modulator of claim 11 further comprising a clamp for limiting the amplitude of the video signal.

21. (previously presented): The modulator of claim 20 further comprising an adjustable amplifier, electrically coupled to the clamp, for adjusting the gain of the video signal.

22. (previously presented): The modulator of claim 21 further comprising a common communication bus, electrically coupled to the adjustable amplifier, for controlling the gain adjustment.

23. (previously presented): The modulator of claim 21 further comprising a limiter, electrically coupled to the adjustable amplifier, for clipping signal peaks of the video signal.

24. (previously presented): The modulator of claim 11 further comprising an adjustable amplifier for adjusting the gain of the first audio signal.

25. (previously presented): The modulator of claim 24 further comprising a common communication bus, electrically coupled to the adjustable amplifier, for controlling the gain adjustment.

26. (previously presented): The modulator of claim 11 wherein the modulator is incorporated into a cable television (CATV) settop box.

27. (previously presented): The modulator of claim 26 wherein the desired output signal is coupled to a television receiver external to the modulator.

Claims 28-34 (canceled)